

Delivering an impressive efficiency of 98 %.
The three-phase PLATINUM® TL inverter.



Warranty



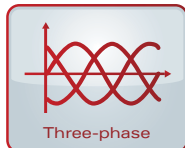
3 MPP trackers



Graphics display



Outdoor IP 66



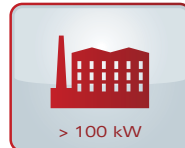
Three-phase



98.0%
Efficiency



10 -100 kW



> 100 kW



Shading

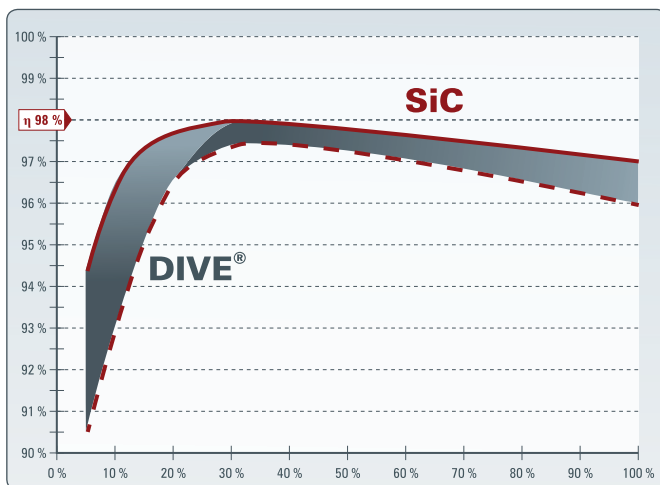
All PLATINUM® TL models are compliant with the “Energy Management (§6 EEG)” market requirement specification, the “Technical Guidelines for Power Generating Plants Connected to the Medium Voltage Grid” and the “Low-voltage Directive AR-N-4105” as of its coming into effect as the successor directive of VDE 0126-1-1.

PLATINUM®
Next Energy Solution.

This three-phase TL inverter impresses with a peak efficiency of 98.0 %. This is largely down to the increase in efficiency particularly in the lower output range achieved by the use of state-of-the-art SiC components in conjunction with the innovative DIVE® technology. The three-phase TL series is designed and constructed to meet the requirements of protection class IP 65 and is therefore suitable for outdoor applications. One main advantage for users is the ease with which the system can be taken into operation via the PLATINUM® network EIA 485: the inputs that are programmed at an inverter are transmitted to all networked devices. All of the key operating data can be clearly read off from the graphics display – even at night. The range includes five three-phase models ranging from 13 to 22 kW.

- Maximum efficiency 98.0 %
- 3 independent MPP trackers
- Integrated datalogger provides storage capacity for 30 years worth of operating data
- Exceptionally wide DC input voltage range
- DIVE® technology for increased efficiency in the lower power output range
- RAC-MPP® technology for rapid MPP tracking
- Suitable for universal use thanks to multi-country configuration
- Free 10-year manufacturer's warranty

Maximised efficiency thanks to SiC and DIVE® technology.



SiC (silicon carbide semiconductor technology)
DIVE® (Dynamic Input Value Enhancement)

Intelligent power bundling for outdoor applications.

The PLATINUM® PowerBlock.

Specially developed for extreme outdoor weather conditions, the PLATINUM® PowerBlock system is a genuine alternative to central inverters. The compact



and robust housing offers optimum protection against rain, hail, sunshine etc.

Specifications			
TL inverter	13000 TL	16000 TL	19000 TL
DC Input			
Max. PV power	14,700 Wp	18,000 Wp	21,300 Wp
Max. DC power (@ cos phi = 1)	12,900 W	15,900 W	18,900 W
MPPT voltage range	351 ... 710 V	349 ... 710 V	350 ... 710 V
Max. input voltage	880 V		
Max. MPPT inout current	3 x 13 A	3 x 16 A	3 x 18.5 A
Number of string inputs	6		9
Number of MPP trackers	3		
DC disconnect	○		
DC short circuit current	3 x 18 A	3 x 22 A	3 x 26 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●		
AC Output			
Rated power (@ cos phi = 1)	12,360 W	15,000 W	18,000 W
Rated current	3 x 17.9 A	3 x 21.7 A	3 x 26.1 A
Max. apparent power	12,360 VA	15,000 VA	18,000 VA
Max. AC current	3 x 17.9 A	3 x 21.7 A	3 x 26.1 A
Power feed starts at	21 W		24 W
Mains output voltage	3AC 230 V / 400 V (+/-20 %)		
Feed in phases / connection phases	3 / 3		
Max. permitted grid impedance Zmax (EN 61000-3-11)	424 mΩ	349 mΩ	290 mΩ
Standby consumption	3 W		
Mains frequency	50 Hz (+/-5 %)		
Power factor (cos phi) (ind ... kap)	0.7 ... 0.7		
Short circuit resistance / Ground fault monitoring (RCD)	● / ●		
Interfaces			
DC connection	MC4		
AC connection	Spring clamp connectors		
RS 485 (Clamps / RJ45)	● / ●		
Ethernet / CAN	- / -		
Integrated web server	-		
Alarm relay	24 V _{AC} / 2 A		
Appliance data			
Max. efficiency	97.7 %		97.9 %
European efficiency	97.4 %		97.5 %
Weight	81 kg	84 kg	87 kg
Dimensions (H x W x D in mm)	743 x 972 x 262		
Operating temperature	-20 ... +60 °C		
Storage temperature	-25 ... +80 °C		
Relative humidity	0 ... 95 %		
Altitude at rated power	2,000 m / 6,560 ft		
Protection degree (except digital interface)	IP 65		
Protection class / overvoltage category	I / Type 3		
Full graphic display (color / monochrome)	- / ●		
Storage capacity data logger	30 years		
System topology	Transformerless		
Cooling	Convection	Fan	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW 2008, CEI 0-21, C10/11, G83/2, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1699/661, IEC 62109, AS 4777, AS 3100		
Warranty	10 years		
Type designation	13000 TLD	16000 TLD	19000 TLD

Subject to alterations. Valid as of 04/2013. More than 45 countries are currently supported. The current list is available from the download area of our homepage www.platinum-nes.com

● Standard ○ Optional - Not available

Specifications		
TL inverter	22001 TL	22000 TL
DC Input		
Max. PV power	23,000 Wp	24,000 Wp
Max. DC power (@ cos phi = 1)	20,800 W	21,600 W
MPPT voltage range	351 ... 710 V	
Max. input voltage	880 V	
Max. MPPT inout current	3 x 20.2 A	3 x 21 A
Number of string inputs	9	
Number of MPP trackers	3	
DC disconnecter	○	
DC short circuit current	3 x 28 A	3 x 29 A
Reverse polarity protection / Ground fault monitoring (isolation check)	● / ●	
AC Output		
Rated power (@ cos phi = 1)	20,000 W	20,700 W
Rated current	3 x 29 A	3 x 30 A
Max. apparent power	20,000 VA	20,700 VA
Max. AC current	3 x 29 A	3 x 30 A
Power feed starts at	24 W	
Mains output voltage	3AC 230 V / 400 V (+/-20 %)	
Feed in phases / connection phases	3 / 3	
Max. permitted grid impedance Z _{max} (EN 61000-3-11)	261 mΩ	253 mΩ
Standby consumption	3 W	
Mains frequency	50 Hz (+/-5 %)	
Power factor (cos phi) (ind ... kap)	0.7 ... 0.7	
Short circuit resistance / Ground fault monitoring (RCD)	● / ●	
Interfaces		
DC connection	MC4	
AC connection	Spring clamp connectors	
RS 485 (Clamps / RJ45)	● / ●	
Ethernet / CAN	- / -	
Integrated web server	-	
Alarm relay	24 V _{AC} / 2 A	
Appliance data		
Max. efficiency	98.0 %	
European efficiency	97.5 %	
Weight	87 kg	
Dimensions (H x W x D in mm)	743 x 972 x 262	
Operating temperature	-20 ... +60 °C	
Storage temperature	-25 ... +80 °C	
Relative humidity	0 ... 95 %	
Altitude at rated power	2,000 m / 6,560 ft	
Protection degree (except digital interface)	IP 65	
Protection class / overvoltage category	I / Type 3	
Full graphic display (color / monochrome)	- / ●	
Storage capacity data logger	30 years	
System topology	Transformerless	
Cooling	Fan	
Standards / grid codes	VDE 0126-1-1, VDE AR-N 4105, BDEW 2008, CEI 0-21, C10/11, G83/2, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C15-712-1, RD 1699/661, IEC 62109, AS 4777, AS 3100	
Warranty	10 years	
Type designation	22001 TLD	22000 TLD

Änderungen vorbehalten. Stand 04/2013. Derzeit werden mehr als 45 Länder unterstützt. Die aktuelle Liste finden Sie im Downloadbereich auf unserer Homepage www.platinum-nes.de

● Standard ○ Optional - Not available

An independent player in the market. The company PLATINUM®.

Originally set up by Diehl Controls, PLATINUM® is trading since 1st April 2013 as an autonomous company belonging to the mutares AG, Munich. So the premium brand from the Allgäu, Germany can distinguish and rise even more. But the same competent, effective and highly capable team is working behind the scenes. The inverters are still manufactured in the Allgäu by Diehl Controls while PLATINUM® develops and sells the inverters.

Therefore the product quality remains at the usual high standard while the strategic new realigned PLATINUM® will set their focus even more on intense consulting, service and training. Our promise: Next energy solution.



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